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Preliminary Assessment Narrative

Date: 5/6/85

Company: South Dayton Dump and Landfill

I.D.#: OHD 980611388

JUL 3 1985

Environmental Protection Agency
SOUTHWEST DISTRICT

The South Dayton Dump and Landfill is located about 1/4 mile west of Springboro Road-Dryden Road. It is about 1/4 mile east and 1/2 mile south of the Great Miami River. This landfill is owned by Alcine Grillot and operated by his brother Kenneth.

The Grillot's have a permit to operate a solid waste landfill but the site currently handles only demolition wastes, unregulated fly ash and foundry sand and scrap for reclamation.

There is evidence that Grillots have taken in drums and other chemicals in the past. According to information in SWDO files, waste from the Hobart Corporation on Torrence Street and Huffman Avenue were transported between June 1973 and July 1976 by Emery Joseph Sysack to both the South Dayton and Landfill and the Blaylock Landfill. P

The material he transported consisted of 1,1,1-trichloroethane, cutting oils, methylethylketone, xylene, paint, machine tool water based synthetic coolants (Kleen Kool and Discool) and solvents. They were all combined in single drums and approximately fifteen drums of liquid waste per month were disposed at the two sites.

Other evidence which shows potential for hazardous wastes to be present is a letter to Alcine Grillot from Charles Lewis, a sanitarian from the Montgomery County Combined General Health District (May 24, 1978), which states that during an inspection by the Health District and the OEPA on May 11, 1978, problems were discovered on the site. They included: 1) nonsatisfactory on site compacting and filling. 2) lack of at least 2 feet of soil for cover that would support vegetation. 3) and presence of containers labelled hazardous on the premises filled with materials.

The letter also notifies Grillot to eliminate the nuisances present. Types and quantity of wastes were not mentioned.

The ground water Pollution Source Inventory Landfill Fact Sheet also described that barrels and drums of highly toxic chemicals were being accepted at the fill. There was not cover material being used.

The presence of these hazardous chemicals poses a threat to the groundwater. The landfill is located just east of the Great Miami River. It lies within the ground water aquifer which consists of sand and gravel deposits. This type of geology allows easy access for the contaminants to leach into the aquifer. There are not any known residential wells down-gradient of the site, the nearest is 1/2 mile upgradient. Contamination of the aquifer system may affect approximately 94,700 people. This number was estimated from a three mile radius from the site. Well fields from Moraine, Kettering, Oakwood and Centerville were within the three mile limits. The Great Miami River also has a chance of being polluted because

the ground water flows west to the River. Fish and other aquatic fauna may be affected along with aquatic flora and the rest of the local environment.

Photographs of the site were taken during these inspections and many drums and barrels of chemicals can be seen. These photos are not enclosed because of the length of turn around time for reprints. They will be sent as soon as they are available.

This site is to be rated as a high priority site for both State and Federal action. A F.I.T. investigation is recommended because of the witnesses who saw chemical and hazardous wastes being deposited in the landfill. Water monitoring wells should be placed on site to determine the quality of the ground water in the area since contamination is possible.

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE: OH 02 SITE NUMBER: OH 04D98X11332

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, Common, or Descriptive Name of Site)

South Dayton Dump + Landfill

02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER

1976 Springboro Rd.

03 COORDINATES LATITUDE

39° 43' 34"

LONGITUDE

E 89° 12' 12"

04 STATE

05 ZIP CODE

06 COUNTY

07 COUNTY CODE

08 CONG DIST

OH

45439

Montgomery

113

03

09 DIRECTIONS TO SITE (Starting from nearest major road)

1/4 mile west of Springboro West - Dryden Rd. Just northwest of intersection of E. River Rd. and Springboro - Dryden Rd. 1/4 mile east + 1/2 mile south of Great Miami River.

Topo map Quad 149 NW

III. RESPONSIBLE PARTIES

01 OWNER (if company)

Alcine Guillot

02 STREET (Business, Home, or Other)

2708 Kreitzer Rd

03 CITY

Moraine

04 STATE

05 ZIP CODE

06 TELEPHONE NUMBER

OH

45439

(513)

299 8803

07 OPERATOR (if company and different from owner)

Alcine or Kenneth Guillot

08 STREET (Business, Home, or Other)

Same

09 CITY

Same

10 STATE

11 ZIP CODE

12 TELEPHONE NUMBER

(513)

299-8803

13 TYPE OF OWNER (if not owner)

☒ A. PRIVATE ☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER

☐ G. UNKNOWN

14 OWNER OPERATOR NOTIFICATION ON FILE (Check if not on file)

☐ A. RCRA 3001: DATE RECEIVED: 1/1/81

MONTH DAY YEAR

☐ B. UNCONTROLLED WASTE SITE (EPCRA 103) DATE RECEIVED: 6.9.81

MONTH DAY YEAR

☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON-SITE INSPECTION

☐ YES

DATE

1/1/81

☐ NO

BY (Check if not on file)

☐ A. EPA

☐ B. EPA CONTRACTOR

☐ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER

CONTRACTOR NAME(S):

02 STATUS (Check one)

☐ A. ACTIVE

☐ B. INACTIVE

☐ C. UNKNOWN

03 YEARS OF OPERATION

BEGINNING YEAR

ENDING YEAR

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Oil wastes (Flammable/Ignitable)
Solvents (Flammable/Explosive/Toxic)
Sludges (Ignitable/Volatile/Flammable)

Heavy Metals (Toxic Corrosive)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Fire/Explosion (Population/Environment)
Groundwater (Population/Environment)
Vapor Release (Population/Environment)

Surface Water (Population/Environment)

V. PRIORITY ASSESSMENT

01 TYPE OF TYPE FOR INSPECTION (Check one. If high or medium is checked, complete Part 2. If low is checked, complete Part 3. If none is checked, complete current assessment only)

☐ A. HIGH

☐ B. MEDIUM

☐ C. LOW

☐ D. NONE

VI. INFORMATION AVAILABLE FROM

01 CONTACT

02 OF (Agency, Organization)

03 TELEPHONE NUMBER

04 PERSON RESPONSIBLE FOR ASSESSMENT

05 AGENCY

06 ORGANIZATION

07 TELEPHONE NUMBER

08 DATE

Scott Shaw

OEPA

(513) 4496357

5.7.85
MONTH DAY YEAR

POTENTIAL HAZARDOUS WASTE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

01 STATE 02 SITE NUMBER
OH 011098611353

WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 WASTE STATES (Check all that apply) <input checked="" type="checkbox"/> A SOLID <input type="checkbox"/> B POWDER, FINES <input checked="" type="checkbox"/> C SLUDGE <input type="checkbox"/> D OTHER _____ (Specify)		02 WASTE QUANTITY AT SITE (Measure of waste quantity must be independently)		03 WASTE CHARACTERISTICS (Check all that apply)	
<input type="checkbox"/> E SLURRY <input checked="" type="checkbox"/> F LIQUID <input type="checkbox"/> G GAS		TONS <u>N/A</u>	CUBIC YARDS <u>N/A</u>	NO. OF DRUMS <u>N/A</u>	<input checked="" type="checkbox"/> A TOXIC <input checked="" type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input type="checkbox"/> D PERSISTENT <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input checked="" type="checkbox"/> G FLAMMABLE <input checked="" type="checkbox"/> H IGNITABLE <input type="checkbox"/> I HIGHLY VOLATILE <input checked="" type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	UNK	UNK	amounts not in records
OLW	OILY WASTE	UNK	UNK	amounts not in records
SOL	SOLVENTS	UNK	UNK	amounts not in records
PSO	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNK	UNK	amounts not in records

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	Chloroethane	71-55-6	LF	N/A	N/A
SOL	1,1,1-Trichloroethane	71-55-6	LF	N/A	
SOL	Methyl Ethyl Ketone	71-93-3	LF	N/A	
SOL	Xylene	1330-20-7	LF	"	
SOL	Standard Solvent	8052-41-3	LF	"	
MES	Arsenic	7440-33-2	LF	"	
MES	Chromium	7440-47-3	LF	"	
MES	Barium	542-62-1	LF	"	
MES	Cadmium	7440-43-9	LF	"	
MES	Lead	7439-92-1	LF	"	
MES	Mercury	7439-97-6	LF	"	
MES	Nickel	7440-02-0	LF	"	
MES	Selenium	7782-49-2	LF	"	
MES	Silver	7440-22-4	LP	"	N/A

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (See Appendix for references, e.g., EPA files, state or local records, etc.)

OEPA files, letters from Hobart Corporation in OEPA files also, NOTIS
Montgomery County Health District, Registry of Toxic Effects of
Chemical Substances.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE OH 02 SITE NUMBER OH 980611385

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION

02 ☐ OBSERVED (DATE N/A)

☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 94,769

04 NARRATIVE DESCRIPTION

Hobart Corporation disposed of paint sludges and cleaning solvents in the landfill. Hobart analyzed hazardous wastes for E.P. Toxicity in 1981 but none of the parameters in the analysis were hazardous. However, the levels exceeded drinking water standards. The landfill lies on top of the sand and gravel aquifer. This enables leachate to enter the aquifer easily.

01 ☐ B. SURFACE WATER CONTAMINATION

02 ☐ OBSERVED (DATE N/A)

☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 5325

04 NARRATIVE DESCRIPTION

Great Miami River is located 1/2 mile west of site. Groundwater flows west into the river. Contamination of groundwater from hazardous wastes will flow to river and pollute it.

01 ☒ C. CONTAMINATION OF AIR

02 ☐ OBSERVED (DATE N/A)

☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: N/A

04 NARRATIVE DESCRIPTION

Landfill contained an air curtain destructor in which wood was burned. Smoke was released into the air from the combustor. Pollution levels were not determined. It is no longer in operation.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS

02 ☐ OBSERVED (DATE N/A)

☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 5325

04 NARRATIVE DESCRIPTION

The materials from Hobart Corporation which were presumably buried in the landfill are known to be flammable & ignitable. Fires and explosions in the area could destroy many nearby buildings, plants & animals.

01 ☐ E. DIRECT CONTACT

02 ☐ OBSERVED (DATE N/A)

☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: N/A

04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL

02 ☐ OBSERVED (DATE N/A)

☒ POTENTIAL ☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: N/A

04 NARRATIVE DESCRIPTION

Charles Lewis of Dept of Health inspected the site and reported problems to the landfill. He said that the area was not compacted satisfactorily, or covered to 2 ft. of soil to support vegetation. Heavy metals could run off and leach into the soils & contaminate them.

01 ☐ G. DRINKING WATER CONTAMINATION

02 ☐ OBSERVED (DATE N/A)

☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 94,769

04 NARRATIVE DESCRIPTION

Analysis showed high levels of metals in leachate (above drinking water standards 981). Metals leached into aquifers, there will be a high probability that the drinking water is contaminated.

01 ☐ H. WORKER EXPOSURE/INJURY

02 ☐ OBSERVED (DATE N/A)

☐ POTENTIAL ☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: N/A

04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY

02 ☐ OBSERVED (DATE N/A)

☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: N/A

04 NARRATIVE DESCRIPTION

II. HAZARDOUS CONDITIONS AND INCIDENTS (CONTINUED)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION02 ☐ OBSERVED (DATE: _____)☐ POTENTIAL☐ ALLEGED01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include names of species)02 ☐ OBSERVED (DATE: _____)☐ POTENTIAL☐ ALLEGED01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION02 ☐ OBSERVED (DATE: _____)☐ POTENTIAL☐ ALLEGED01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Solid, liquid, or gaseous waste leaching through)02 ☐ OBSERVED (DATE: _____)☐ POTENTIAL☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION02 ☐ OBSERVED (DATE: _____)☐ POTENTIAL☐ ALLEGED01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION02 ☐ OBSERVED (DATE: _____)☐ POTENTIAL☐ ALLEGED01 ☐ P. ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION02 ☐ OBSERVED (DATE: _____)☐ POTENTIAL☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, EPA site analysis reports)

OEPA files, DSHWM, Montgomery County Health District - John Bindeman, NOTIS, Topo Maps in OEPA Public Water Supply; Ohio Population Report, Condensed Chemical Dictionary, 10th ed (Reinhold), Dangerous Properties of Industrial Materials 5th ed (SAI).

Major Data Elements	Information Available		Major Source (Ohio EPA Divisions, other agencies, reports/documents)
	Yes	No	
<u>Owner/Operator Information</u>			
Owner	:	:	NOTIS OEPA Files Solid Waste Div.
Operator	:	:	NOTIS OEPA Files Solid Waste Div.
Other Responsible or Affected Parties	:	:	
<u>Waste Information</u>			
Waste States	:	:	OEPA Files - Solid Waste Div. Hobart Corporation
Waste Quantity at Site	:	:	N/A
Waste Characterization	:	:	Condensed Chemical Dictionary (Ainhold); Dangerous Properties of Ind. Materials
Waste Type	:	:	Hobart Corporation OEPA Files - Solid Wastes
Hazardous Substances	:	:	OEPA Files - Solid Wastes
<u>Hazardous Conditions Information</u>			
On-Site Inspection	:	:	N/A
Ground Water	:	:	OEPA Files
Surface Water	:	:	OEPA Files - Public Water Supply
Air	:	:	OEPA Files
Fire/Explosion	:	:	OEPA Files
Direct Contact	:	:	N/A
Soil	:	:	N/A
Drinking Water	:	:	OEPA Files

